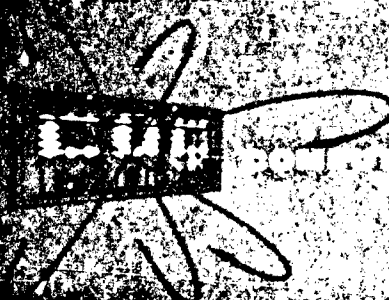


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► U.S. Army Biological Laboratories  
Fort Detrick  
SELECTIVE DISSEMINATION  
OF INFORMATION

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SELECTIVE DISSEMINATION OF INFORMATION

#### **ABSTRACT**

The National Library of Medicine's MEDLARS program provides monthly magnetic tapes containing bio-medical citations of interest to the Biological Laboratories. After code conversion from Minneapolis-Honeywell 800 to UNIVAC SS-90-II, selected citations are sent to principal investigators. A two-part "citation notice and response card" permits scientists to change terms in his profile, request hard copy of journal articles, comment, etc.

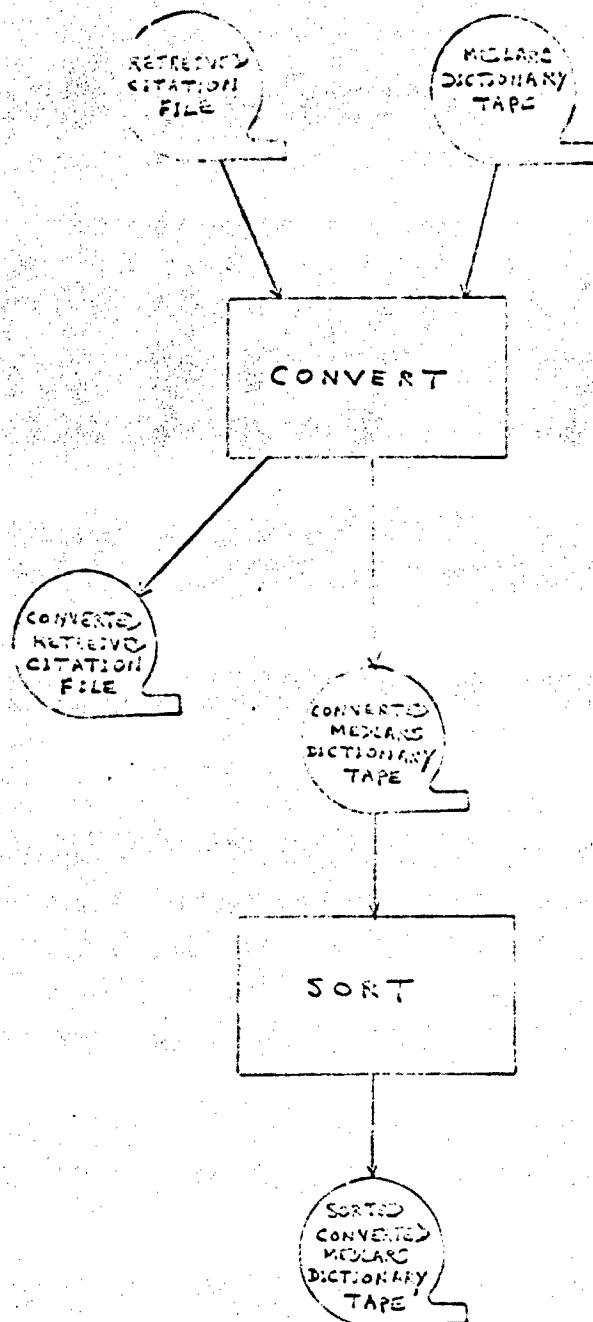
## SELECTIVE DISSEMINATION OF INFORMATION

1. The Fort Detrick SDI system is based on an Interest Profile tape that contains the profiles of each participant in the system. This file may be updated at any time to add, change or delete parts of a profile. Provision is made for each participant to specify the method to be used in selecting citations based on his profile.
2. The Interest Profile may contain the name of the participant, a two line address, up to ten languages that are of interest, and any number of interests with up to 400 tags to an interest.
3. When creating an Interest Profile for a participant the option is given to specify either the MAY or the WEIGHT method of selecting citations. If the method of selection is to be changed, then each tag for the participant should be changed to remove the weights or to insert weights.
4. The program to select citations will normally read a single citation into storage and compare each code in the citation against each coded interest tag. If a match is found and the tag is a MUST, the citation will be selected regardless of weights or percent of matches. If a match is found and the tag is a NOT, the citation will be bypassed. The NOT operation overrides all other considerations including the MUST.
5. If the WEIGHT method of selection is used, each tag on the Interest Profile that is not a MUST or NOT should have a weight assigned to it. When an interest tag matches the citation, the weight associated with the tag will be added into an accumulator. If the total weight arrived at by matching each tag of the interest against each code on the citation is equal to or greater than ten and a key tag (weight greater

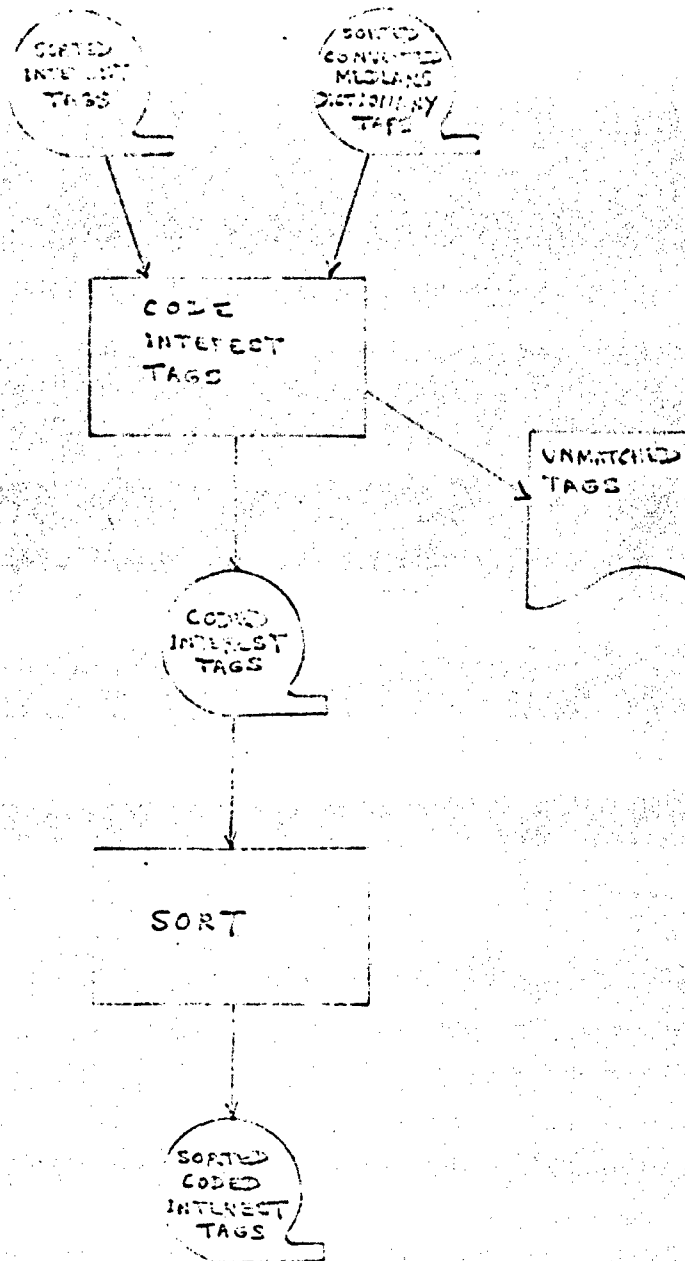
than one) was matched, the citation will be selected. The number to be used as a total weight and/or the number to be used as a key weight may be changed by making minor modifications to the program that selects citations. Specific instructions for making these modifications will be given in the description of the program that selects citations.

6. When the MAY method of selection is used, a citation will be selected based on the number of tags in an interest that match the citation. A percentage will be taken on the number of tags in the interest or the number of codes associated with the citation, whichever is lower. If the number of tags on which a match is made is equal to or greater than the result, a selection will be made provided that a NOT tag was not matched on that citation.
7. Once a citation has been selected, it will not be matched against any other interests for the same participant, so the notification cannot be selected twice (See note). If it happens that a citation does meet the selection criteria for more than one interest of a participant, only the tags of the interest causing selection will appear on the notification card.
8. A participant in the SDI System will indicate his response to a notification by placing a circle around the appropriate response number on the right hand side of the double 3X5 notification card. This response will be used to update his Interest Profile and will be shown on the SDI Statistics Report in the next period.

**NOTE:** If a participant's entire profile contains in excess of 400 tags, it is possible to make more than one selection of a citation since in this case the program would make a second search of the citation file and would not keep track of citations selected during the first search.







Medlars Dictionary Tape

**Purpose:** To convert the Retrieved Citation File and Medlars Dictionary Tape from 720 character blocks to 1000 character blocks in standard USS II interlace.

**Input:** Retrieved Citation File with 720 character blocks and one record per block.

Medlars Dictionary Tape with 720 character blocks and seven records per block, with each record containing 100 characters.

**Output:** Converted Citation File with 1000 character blocks and two 500 character records per block in standard interlace.

Converted Medlars Dictionary Tape with 1000 character blocks and ten 100 character records per block.

## HALTS

67 1111 cccc

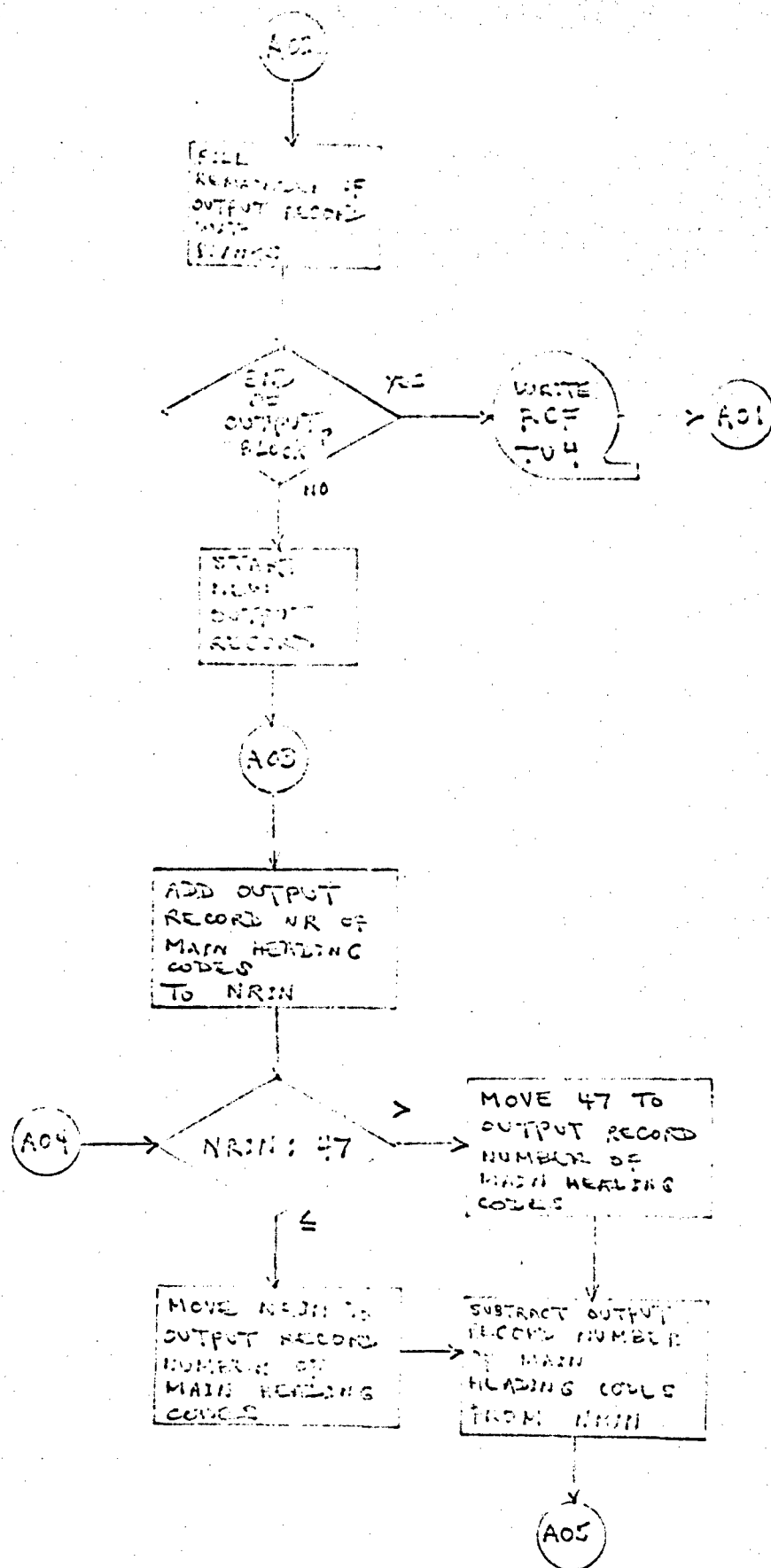
Add overflow. Indicates a possible machine malfunction. Program must be rerun.

67 1112 cccc

Subtract overflow. Indicates a possible machine malfunction. Program must be rerun.

67 9999 9999

End-of-job.



2071

CLASS  
INSTR  
OUTPUT  
TUB

INITIALIZE  
MID  
INPUT  
TUB

INITIALIZE  
MID  
OUTPUT  
TUB

201

CONVERT - OUTPUT	Run No.	Programmer
CITATION NUMBER		
		LANGUAGE CODE
NUMBER OF MAIN HEADING CODES		
		MAIN HEADING CODE
VARIABLE		MAIN HEADING CODE
TITLE, AUTHOR, JTA, VOLUME, PAGING, PUBLICATION DATE		

## **SORT MEDLARS DICTIONARY TAPE**

**Purpose:** To sort the Converted Medlars Dictionary Tape into sequence by English Main Heading.

**See sorting instructions on last page of book.**

## Interest Profile Update

**Purpose:** This program creates and maintains the Interest Profile Tape for the SDI System.

**Input:** Latest Interest Profile Tape.

Action cards.

**Output:** Updated Interest Profile Tape.

Interest tags.

Error Listing.



Card column 20 is used when a name card is added or changed, and must contain an M if the MAY method of selection is to be used. If the WEIGHT method of selection is used cc 20 must contain a W.

An add or change name contains the name in cc 21-55.

An add or change address has line 1 of the address in cc 21-55 and line 2 (if used) in cc 56-90.

A language card has the language punched in cc 21-30.

An add or change interest has the tag in cc 21-68.

L  
De

[illegible]

### **Address Card - Type 2**

**An address card may be entered when adding a participant to the interest profile, or an address of a participant already on the file may be changed.**

**Provision is made for two address lines; if only one line is used, card columns 56-90 should be blank. Each time an address card is entered, both lines of the address will be placed on the profile.**

**Only one address card may be entered for a participant during a run.**

#### Interest Card - Type 4

An interest tag may be added to the file by entering an add card with the interest number and with or without a tag number. When the tag number is left blank, the tag to be added will be placed in front of all tags for this interest that are already on the profile. As each tag is placed on the profile a tag number beginning with 1 and increasing by 1 for each tag will be assigned by the program. Therefore, whenever a tag is added, or deleted, the tag number of every other tag under that interest number could be changed.

When the tag number is entered for an add card and the same tag number is already on the file, the tag will be placed immediately following the tag that is on the file. Otherwise, it will be placed on the file in sequence by the tag number assigned.

When the WEIGHT method of selection is being used, each interest tag other than MUST or NOT tags must have a two-digit weight number assigned to it, if the tag is being added or changed.

When a tag is being changed, the tag number must be included and the proper weight or MUST/NOT code if the WEIGHT method is used. If the MAY method is being used, the weight columns should be blank or contain a MUST/NOT code.

If a tag is to be removed, both the interest number and tag number are required.

If all tags under an interest are to be removed, a single delete card may be entered for that interest number with the tag number left blank.

Only one action card should be entered for a specific tag during the run.

When an entire interest is deleted from the file no other actions for that interest should be entered in the same run.

11. An action has been entered to change or delete a tag that is not on the profile.
12. An action code must be A, C, D. (Add, change, delete).
13. Card is out-of-sequence. (Sequence check is on cc 1-16).
14. Information in cc 1-16 must be numeric.
15. An action has been entered to delete a language that is not on the Interest profile.
16. Card column 20 of a name add or name change card must contain a selection method code of M or W.

## Interest Profile Update

### HALTS

67 1111 cccc

Add overflow while incrementing error listing line counter. This halt may be found in assembly listing in routine labeled PRT. Possible machine malfunction.

67 1112 cccc

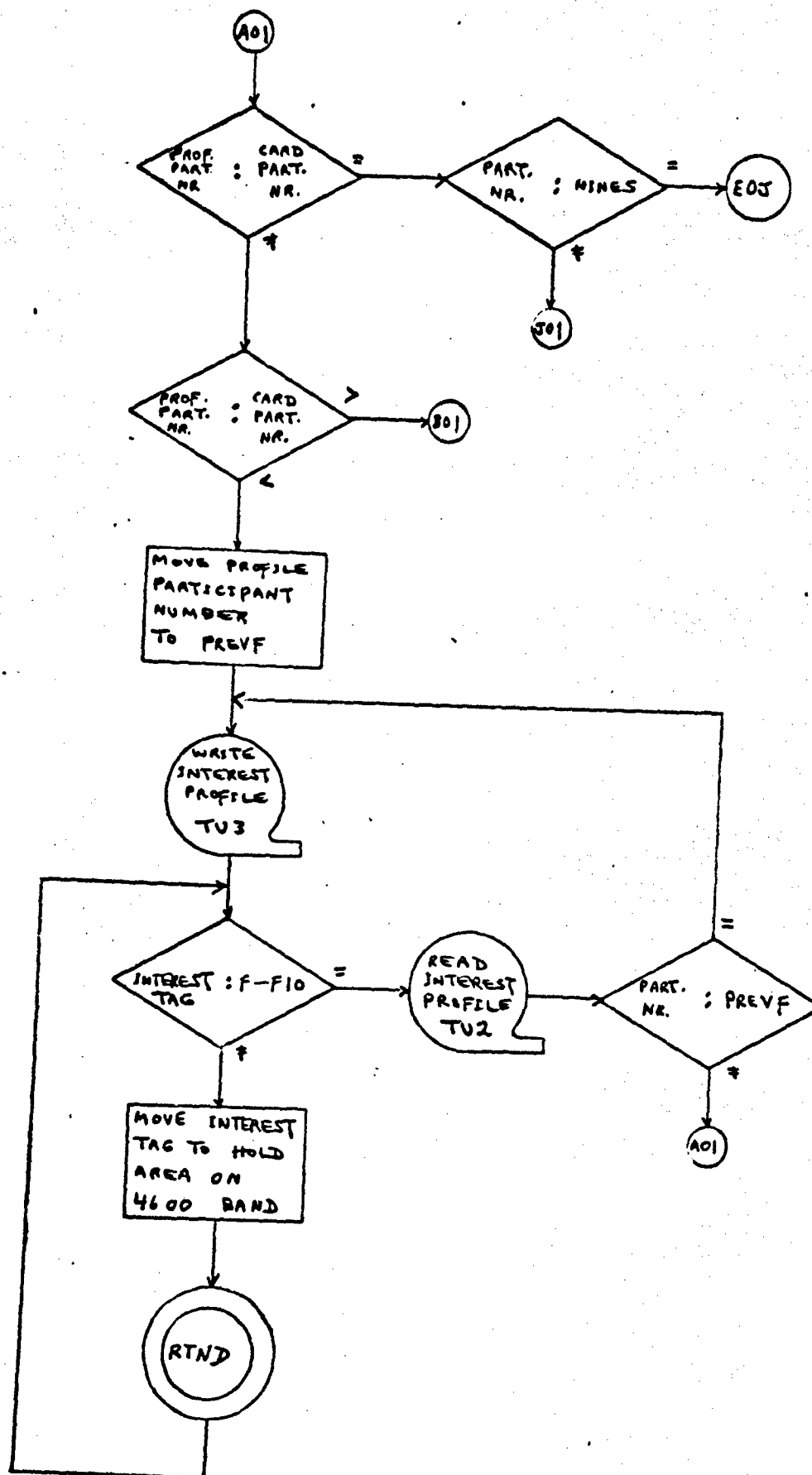
Add overflow while incrementing error listing page counter. Halt may be found in assembly listing in routine labeled PRNT. Possible machine malfunction.

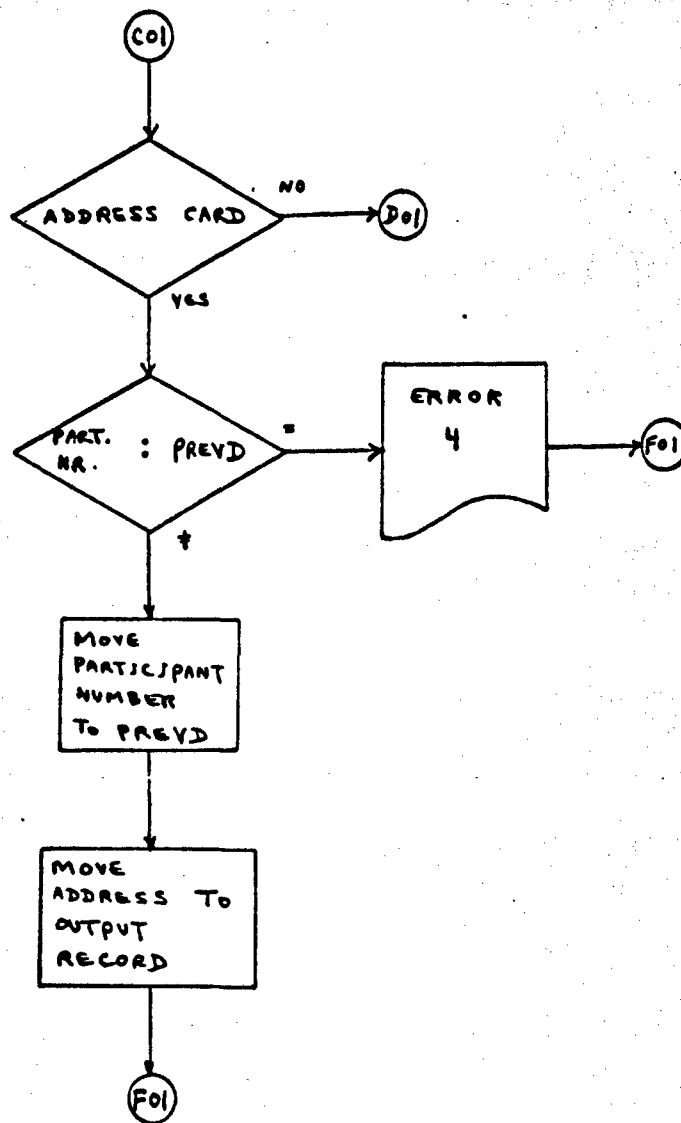
67 000A 000A

C+1 on printer. Correct error condition, press clear and run.

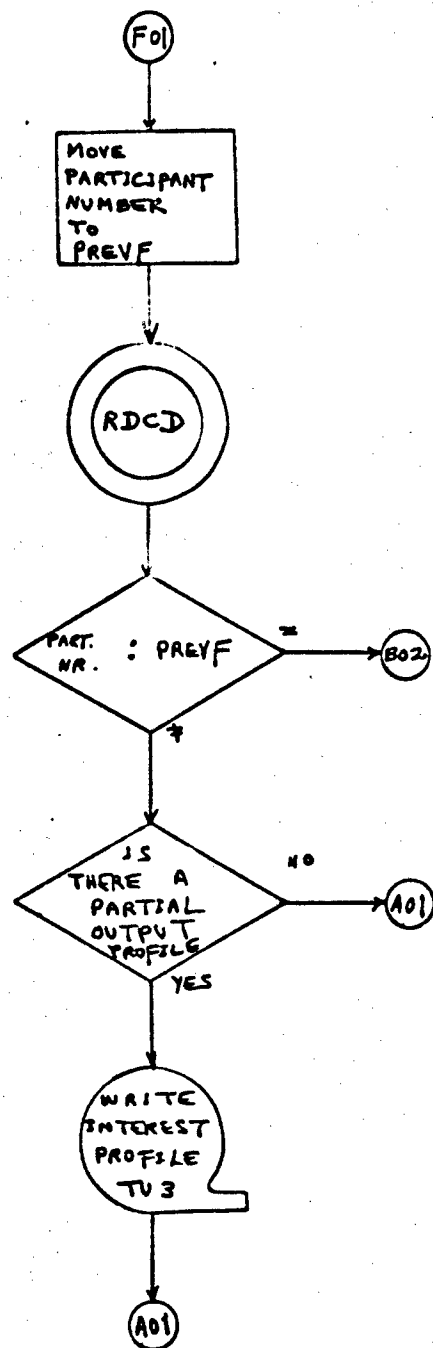
67 9999 9999

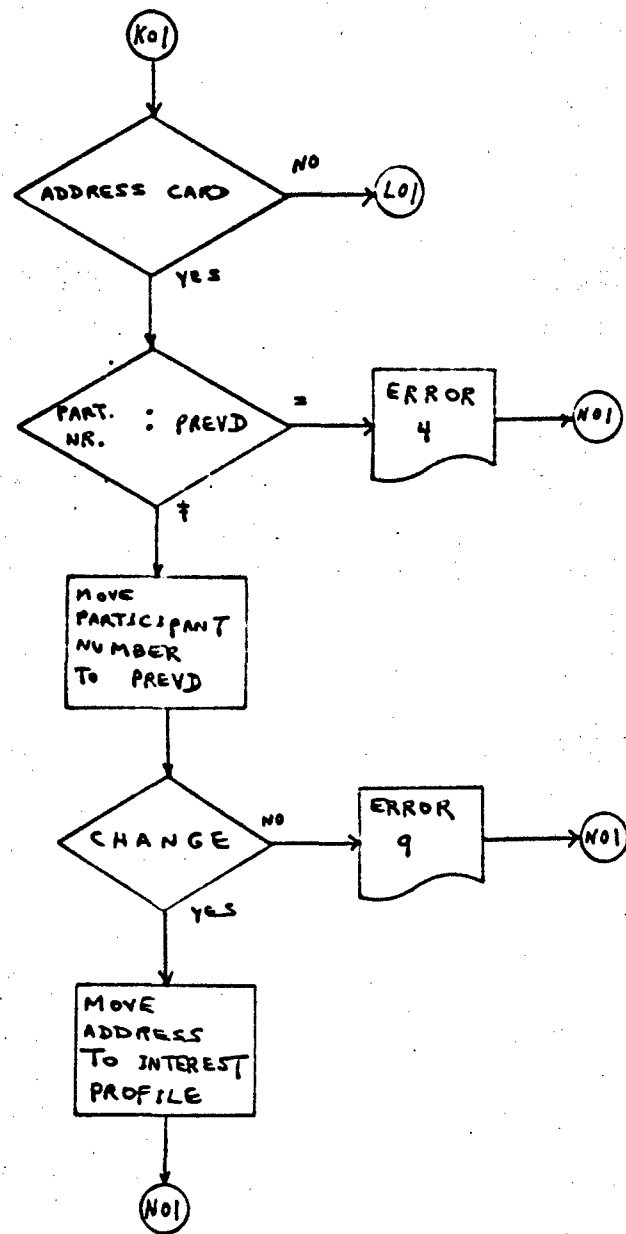
End-of-job.

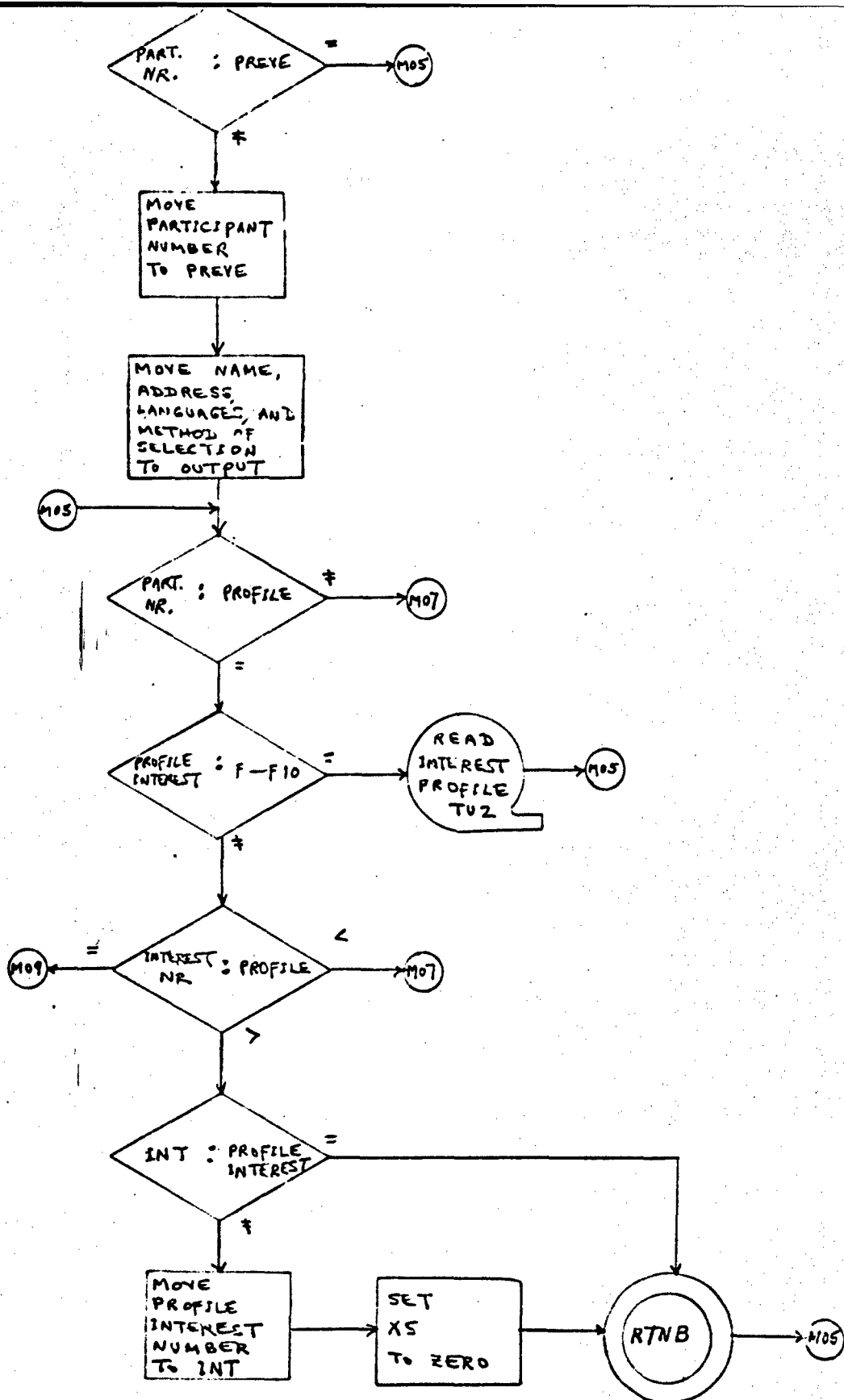


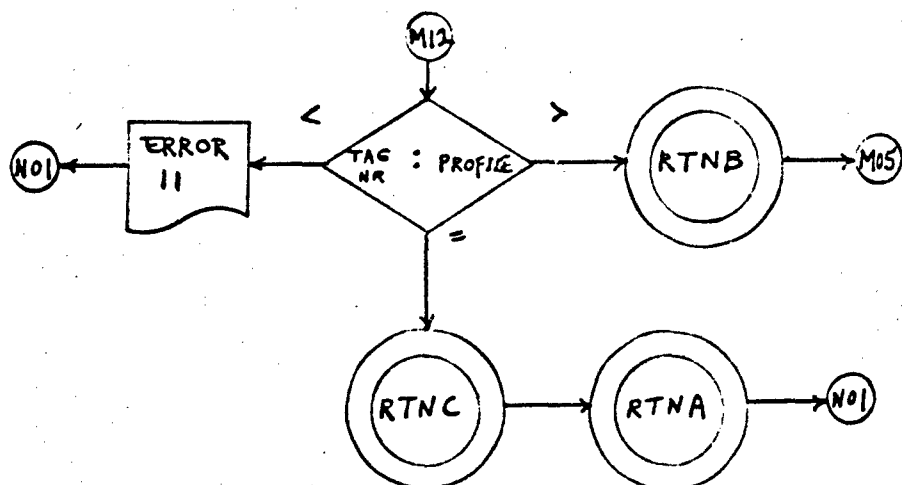
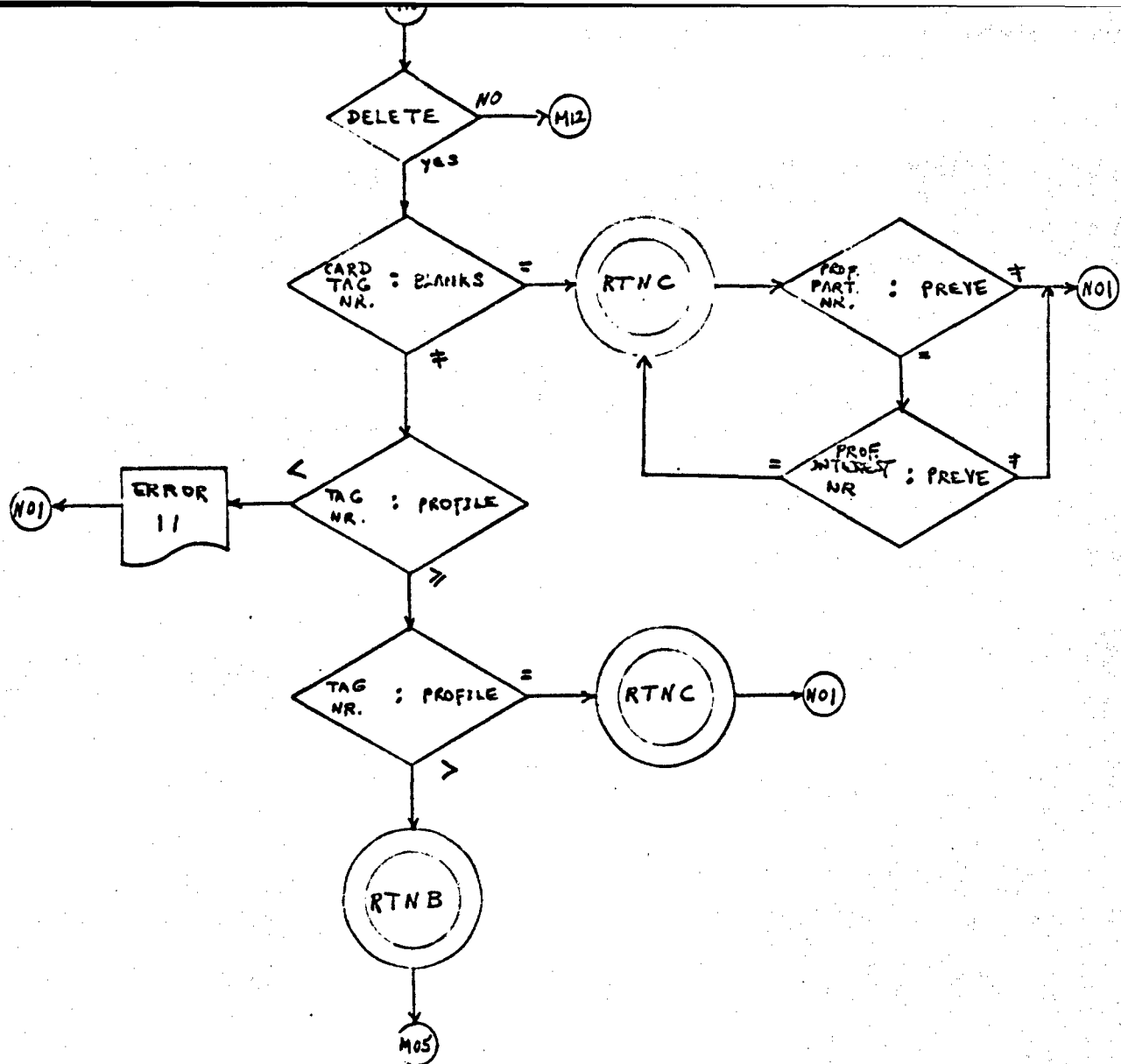


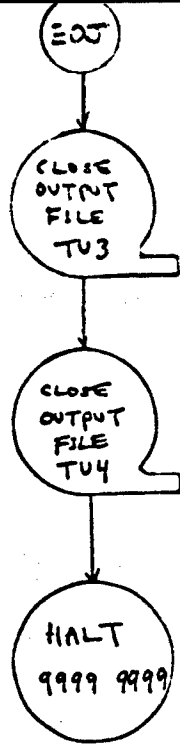


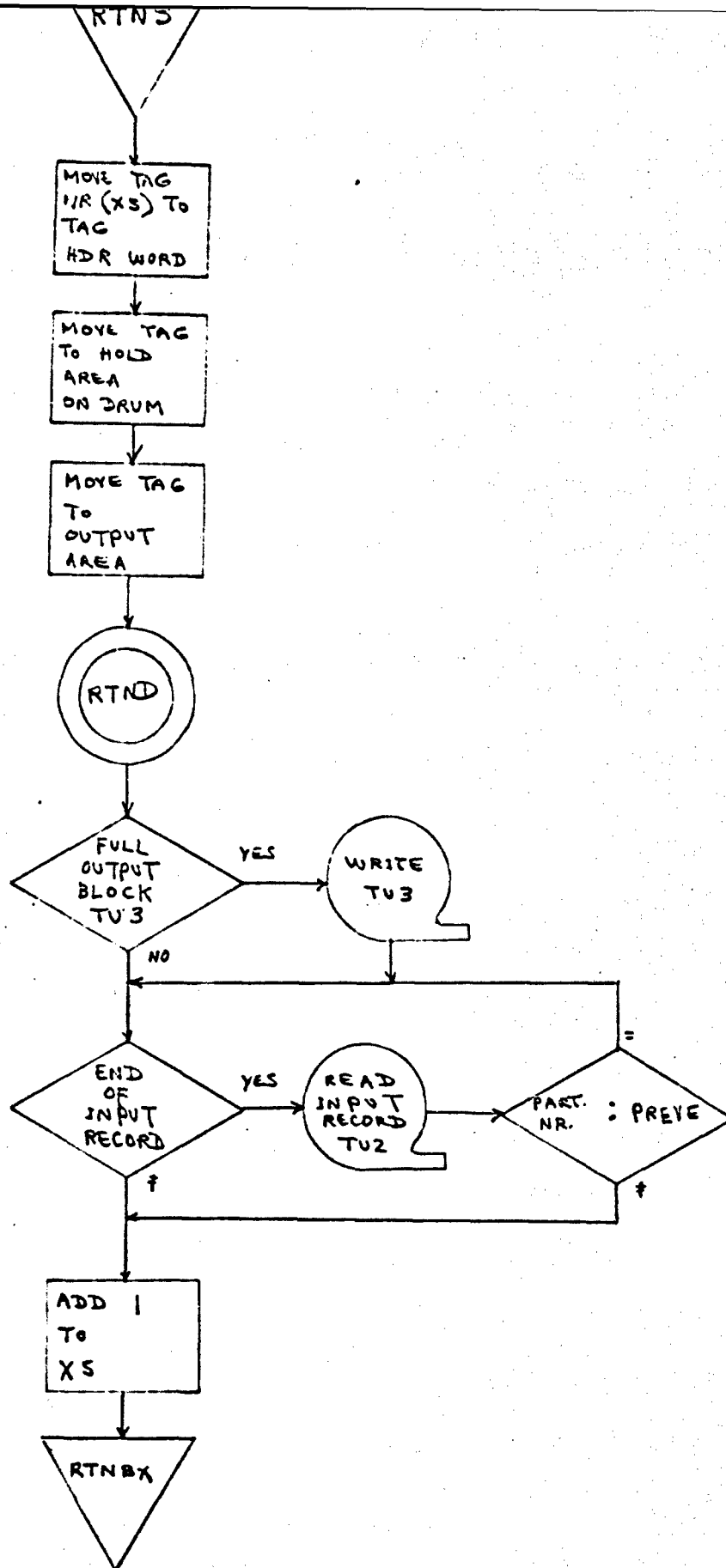


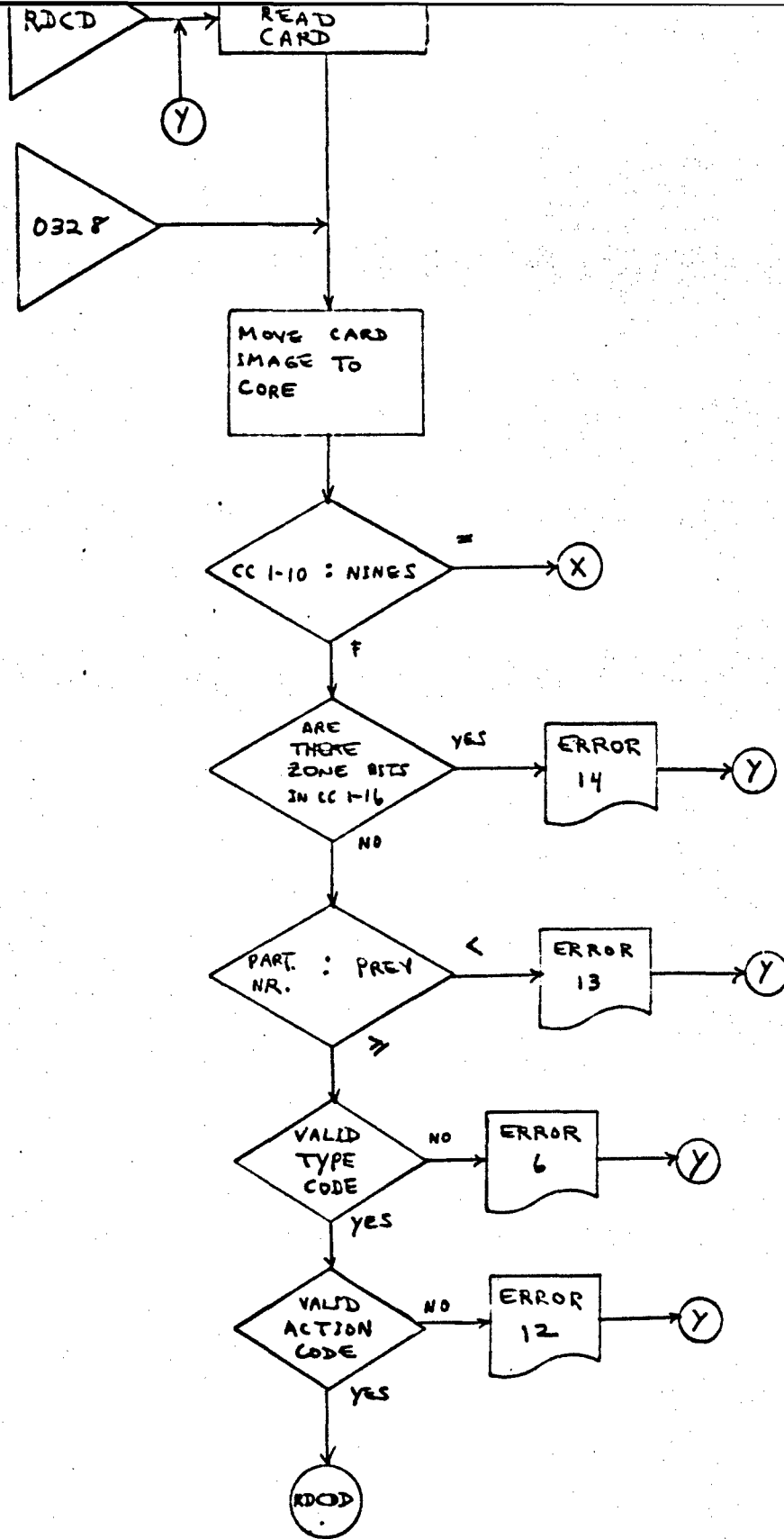












INTEREST. PROFILE UPDATE - INPUT/OUTPUT		Run No.	Programmer
LENGTH. IF A RECORD IS BY THE FIRST ON THAT WILL START L 008.	PARTICIPANT NUMBER		
	N A M E		
	N A M E		
	N A M E		
	N A M E B L A N K		
	A D D R E S S ( L I N E 1 )		
	A D D R E S S ( L I N E 1		
	A D D R E S S ( L I N E 1		
	A D D R E S S ( L I N E 1 )		A D D R E S S ( L I N E 2 )
	A D D R E S S ( L I N E 2 )		
A D D R E S S ( L I N E 2 )			
A D D R E S S ( L I N E 2 )			
L A N G U A G E 1			
L A N G U A G E 2			
L A N G U A G E 3			
L A N G U A G E 4			
L A N G U A G E 5			
L A N G U A G E 6			
L A N G U A G E 7			

Y  
1320



[illegible]

*[Illegible handwritten text]*

## ERROR LISTING

ERROR  
CODE

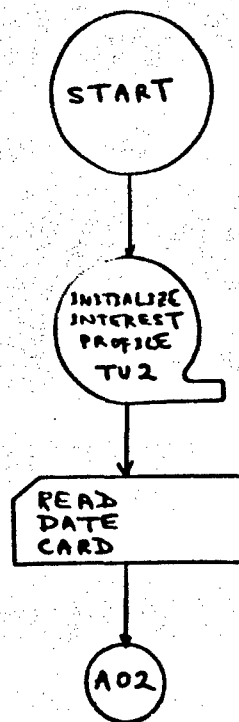
PAGE 12

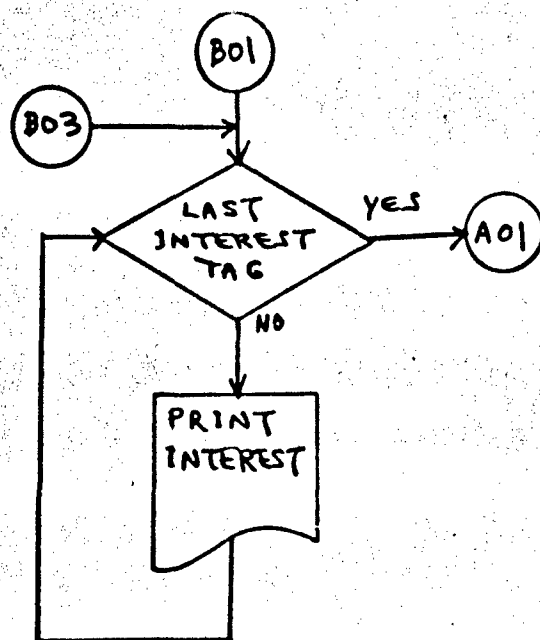
## Interest Profile Status Report

### Operating Instructions

1. Load program from SDI Master Instruction tape. (SDI-MIT)
2. Mount Interest profile on tape unit #2.
3. Place date card with date punched in cc 1-20 in card reader.
4. Set paper in printer with three holes showing above the sprocket.
5. Start at 4999.

# INTEREST PROFILE STATUS REPORT





ITEM LAYOUT CHART		Item Name	Date
Location		Run No.	Programmer
		LANGUAGE 9	
		LANGUAGE 10	
		NUMBER OF NOTIFICATIONS THIS PERIOD	
		TOTAL NOTIFICATIONS	
		NUMBER OF RESPONSE 1	
		NUMBER OF RESPONSE 2	
		NUMBER OF RESPONSE 3	
		NUMBER OF RESPONSE 4	
		BLANK	
- FOR MAY SYSTEM BLANK FOR WEIGHT SYSTEM		BLANK	Y BLANK
		INTEREST TAG NUMBER NUMBER	0 0 WEIGHT
HT WILL BE BLANK/N FOR AND BLANK/M FOR MUST.		TAG WORD	
		TAG WORD	
		TAG WORD	
		TAG WORD	
		TAG WORD	

# TEN-TO-THE-INCH SPECIFICATION SHEET

Copy drawn for IBM Type 407 must include alignment symbols (P) in one or more of three locations shown

THE S

TECHNICAL LIBRARY  
U. S. ARMY, BIOLOGICAL LABORATORY  
FORT DETRICK, MARYLAND  
ESTABLISHMENT OF INFORMATION  
INTEREST PROFILE STATUS REPORT

PAGE 1/1

DATE

XX

X

[illegible]

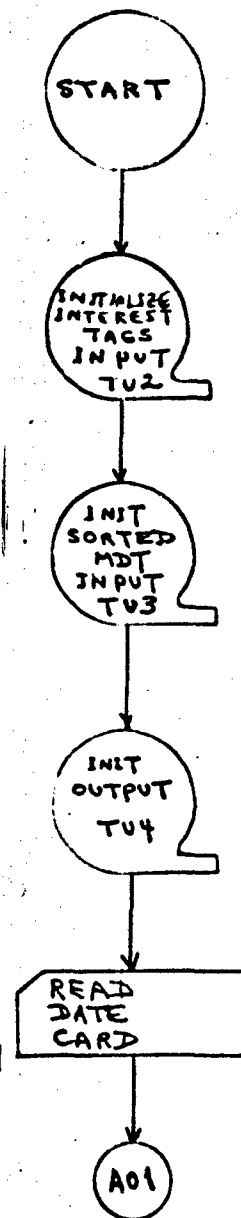


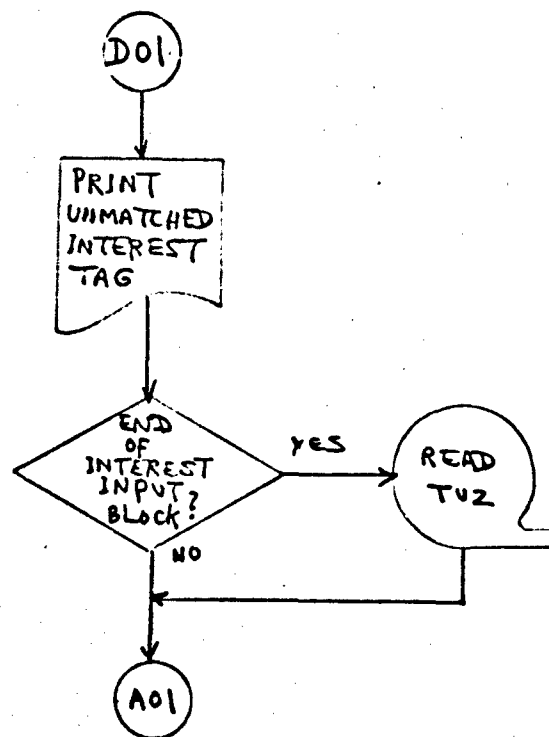
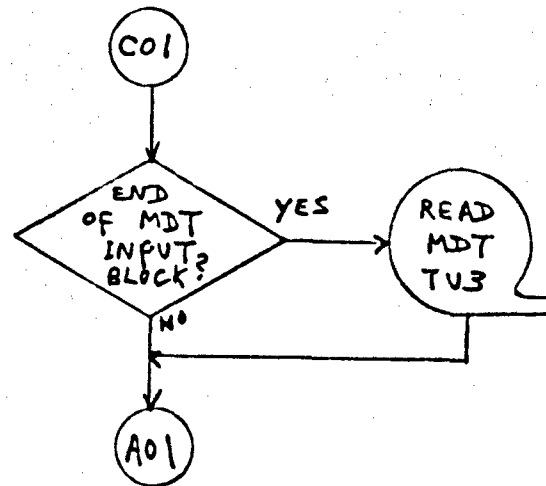
## Code Interest Tags

### Operating Instructions

1. Load program from SDI Master Instruction Tape. (SDI-MIT)
2. Mount sorted Interest profile on tape unit #2.
3. Mount sorted Medlars Dictionary tape on tape unit #3.
4. Mount scratch on tape unit #4. This will be the coded interest tag file.
5. Place date card in reader with date punched in cc 1-20.
6. Set paper with three holes showing above the sprocket.
7. Start at location 4999.

# CODE INTEREST TAGS





[illegible]

INTEREST PROF

INTEREST PROFILE TAG

X

## **SORT CODED INTEREST TAGS**

**Purpose:** To sort the Coded Interest tags into sequence by participant number, interest number, and tag number.

See sorting instructions on last page of book.

## SELECT CITATIONS

**Purpose:** The purpose of this program is to match the Coded Interest File against the Retrieved Citation File and to select certain citations based on either the MAY or the WEIGHT method of selection. A percent will be provided at the start of the program and will be used for those participants who have specified the MAY method in their interest profile. The method used in selecting citations is to make one or more passes of the citation file for each participant. Only one pass will be made if the total number of tags for the participant is less than 400. To avoid a delay while waiting for the citation file to rewind, this tape is initially copied onto a work tape, and these tapes are alternated during the run.

**Input:** Converted Retrieved Citation File with two 500 character records per block.

Coded Interest File with ten records per block sorted into sequence by participant number, interest number, and tag number.

**Output:** The output will be the Selected Citation File. As each citation is selected, a separate record will be written containing the interest tag codes that caused selection.

## SELECT CITATIONS

### HALTS

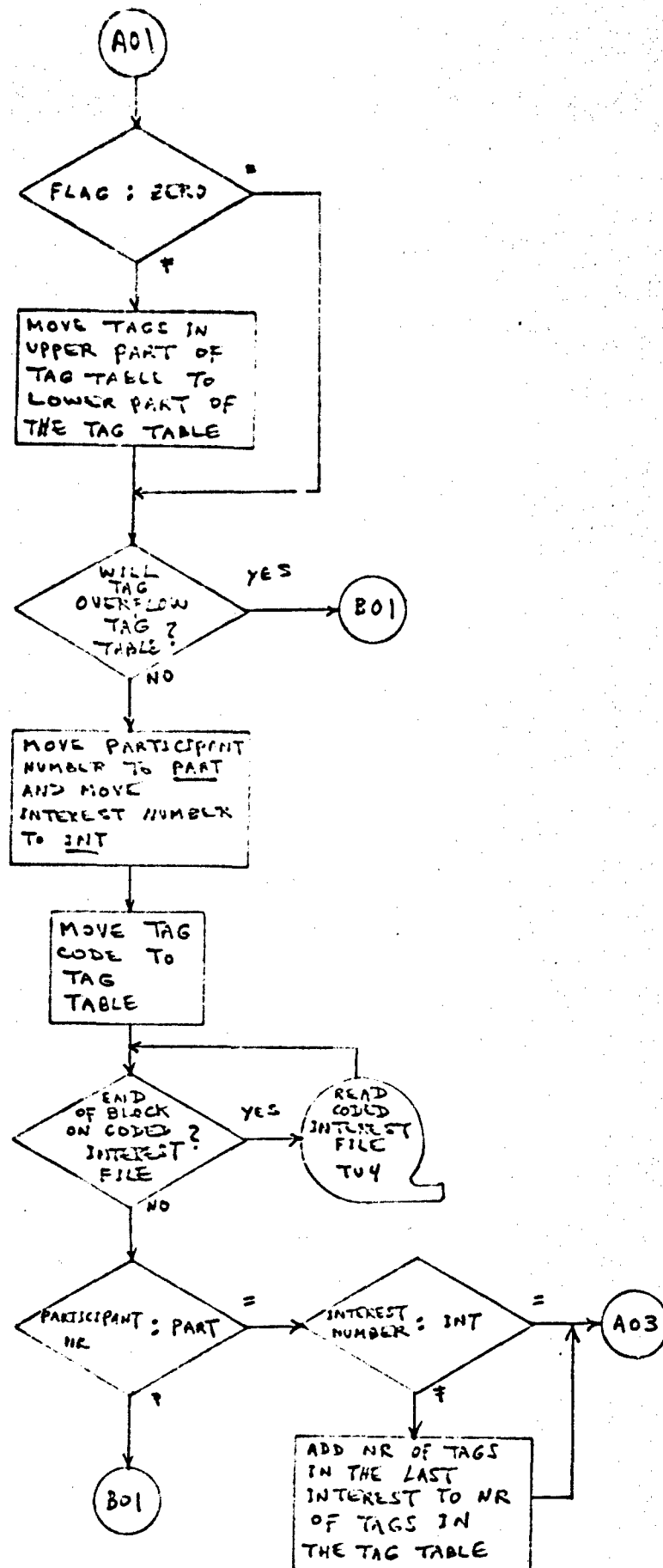
67 1111 cccc

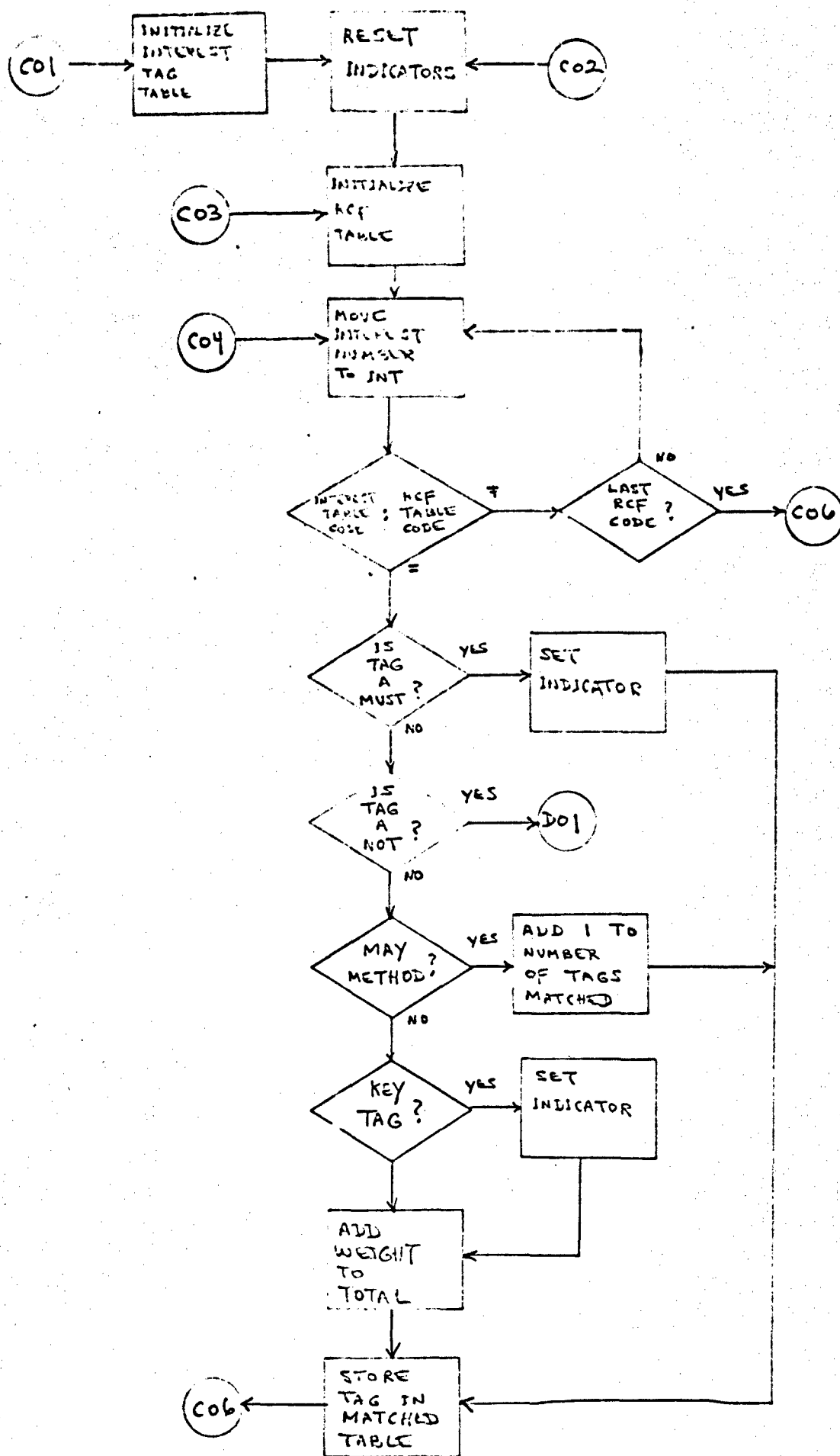
C + 1 on an addition using the add routine. RA contains the initial value, rX contains the number to be added, and rL contains the exit. The halt may be overridden by transferring control to rL, but it is recommended that the cause of the overflow be traced and a rerun made.

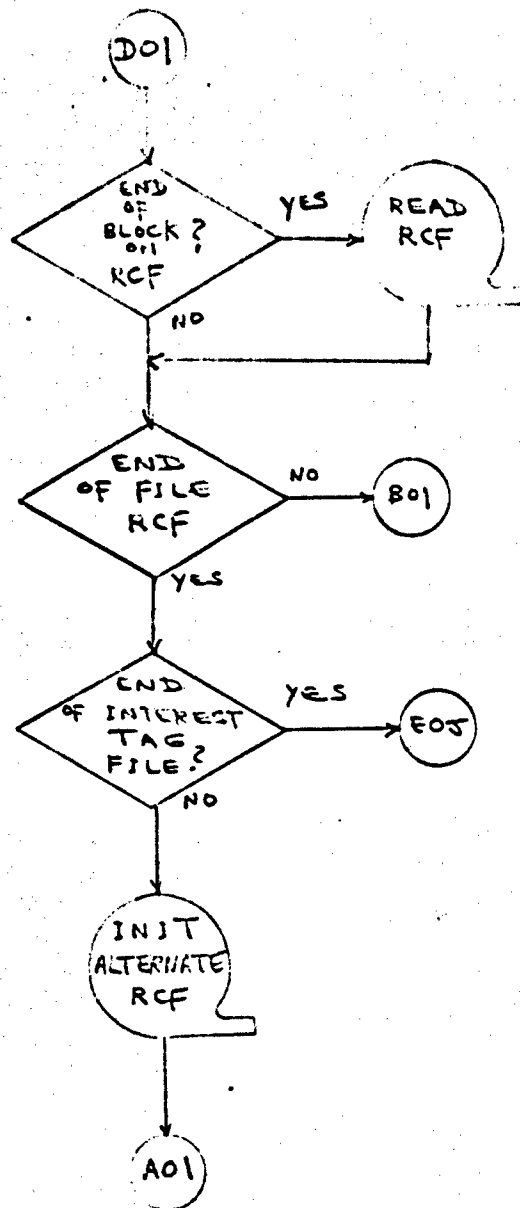
67 9999 9999

End-of-job.









ITEM LAYOUT CHART		Item Name - <sup>CONVERTED</sup> RETRIEVED CITATION FILE	Date
Application	SELECT CITATIONS - INPUT	Run No.	Programmer
30(500) CHARACTER		C I T A T I O N   N U M B E R	
1000S DEP			
100 CHARACTER BLK.			LANGUAGE CODE
		NUMBER OF MAIN HEADING CODES	
			MAIN HEADING CODE
	VARIABLE		MAIN HEADING CODE
		T I T L E ,   A U T H	
		O R ,   J T A ,   V O L	
		U M E ,   P A G I N A	
		T I O N ,   P U B L I	
		C A T I O N   D A T	
		E	

# ITEM LAYOUT CHART

Item Name

SELECTED  
CITATION

Date

Allocation

SELECT CITATIONS

30 500 CHARACTER

CODES PER BLOCK

PARTICIPANT NUMBER

LANG  
CODE

CODE 1 IS THE  
TATION. THERE MAY  
= MORE THAN ONE  
RECORD 1 FOR A  
PAGE CITATION.

NUMBER OF MAIN HEADING CODES

CODE

CODE

TITLE, AUTH

OR, JTA, VOL

UME, PAGINA

TION, PUBLI

CATION DAT

E

CORD 2 CONTAINS

INTEREST AND TAG

NUMBER OF THE TAGS  
AT CHANGED SELECTION

PARTICIPANT NUMBER 2

INTEREST

TAG

X

2. - FOR MUST

) FOR NOT

FFFFFF10 FOLLOWS

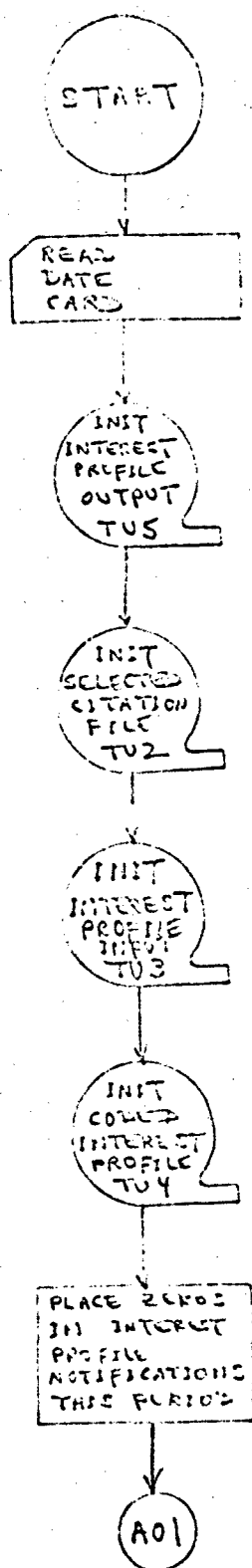
T ENTRY.

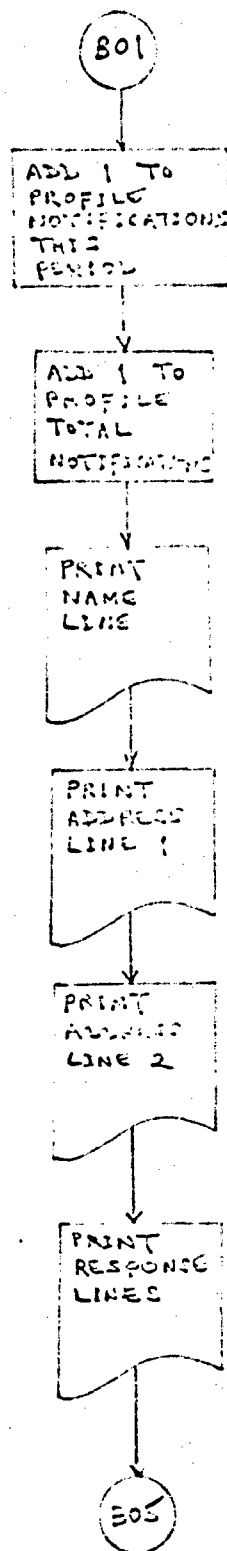
## PRINT NOTIFICATIONS

### OPERATING INSTRUCTIONS

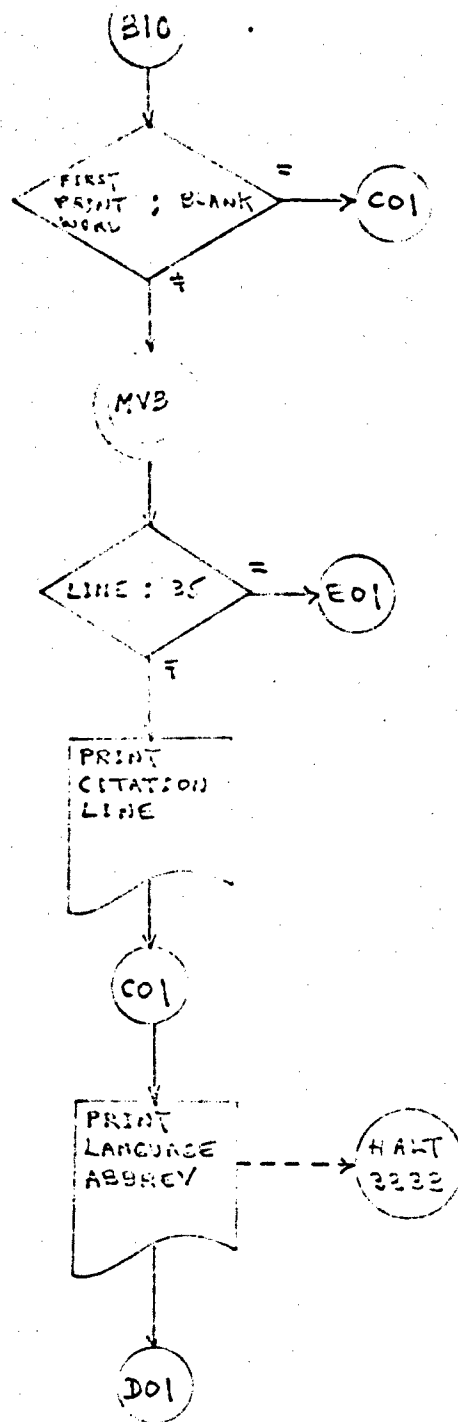
1. Mount Selected Citation File on tape unit #2.
2. Mount latest Interest Profile on tape unit #3.
3. Mount the sorted Coded Interest File on tape unit #4.
4. Mount a scratch tape on tape unit #5. The output on this tape will be the updated Interest Profile to be used as input to the program that prints the SDI Statistics.
5. Place a date card in the reader with the date punched in CC 1-20.
6. Set up the printer with the special 3 x 5 card forms. The form should be set so that printer position 1 will be the leftmost print position on the card. Insure that a horizontal perforation of the forms is set against the print hammers.
7. Start at location 4999.

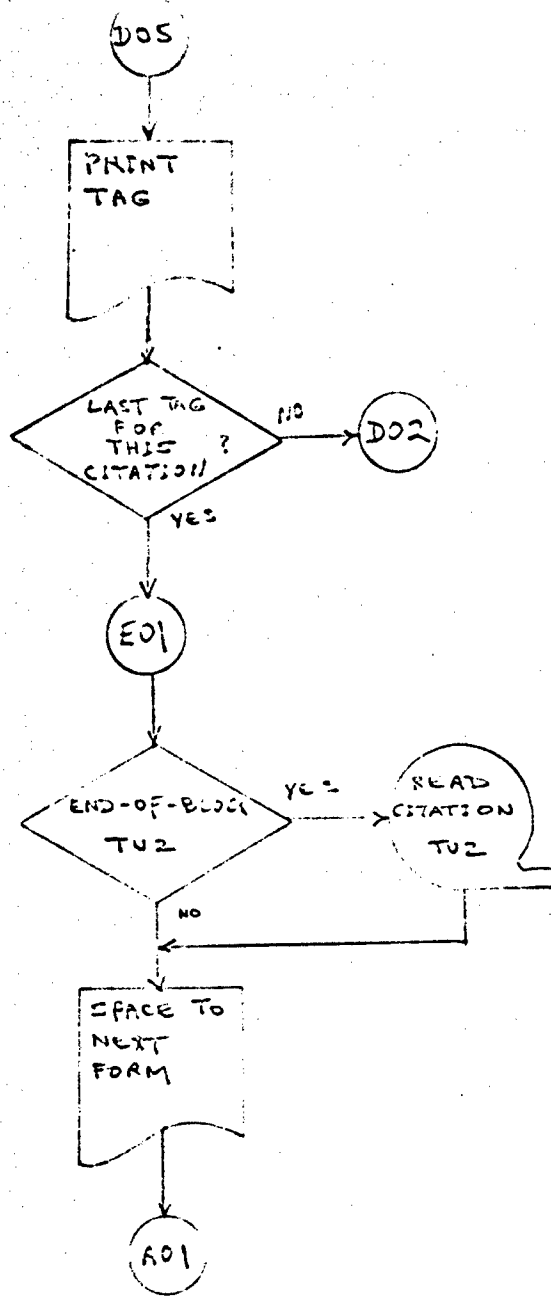
PRINT NOTIFICATIONS











ITEM LAYOUT CHART		Item Name	INTEREST PROFILE	Date
Application	PRINT NOTIFICATIONS - INPUT/OUTPUT		Run No.	Programmer
		PARTICIPANT NUMBER		
		NAME		
		NAME		
		NAME		
		NAME BLANK		
		ADDRESS (LINE 1)		
		ADDRESS (LINE 1)		
		ADDRESS (LINE 1)		
		ADDRESS (LINE 1)	ADDRESS (LINE 2)	
		ADDRESS (LINE 2)		
		ADDRESS (LINE 2)		
		ADDRESS (LINE 2)		
		LANGUAGE 1		
		LANGUAGE 2		
		LANGUAGE 3		
		LANGUAGE 4		
		LANGUAGE 5		
		LANGUAGE 6		
		LANGUAGE 7		
		LANGUAGE 8		

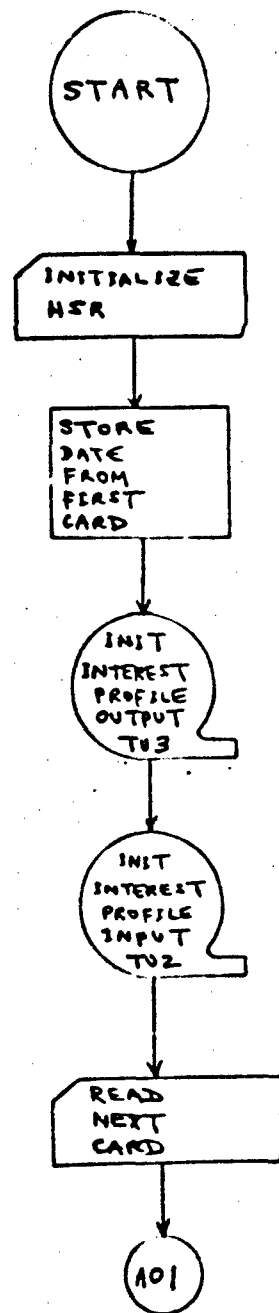
[illegible]

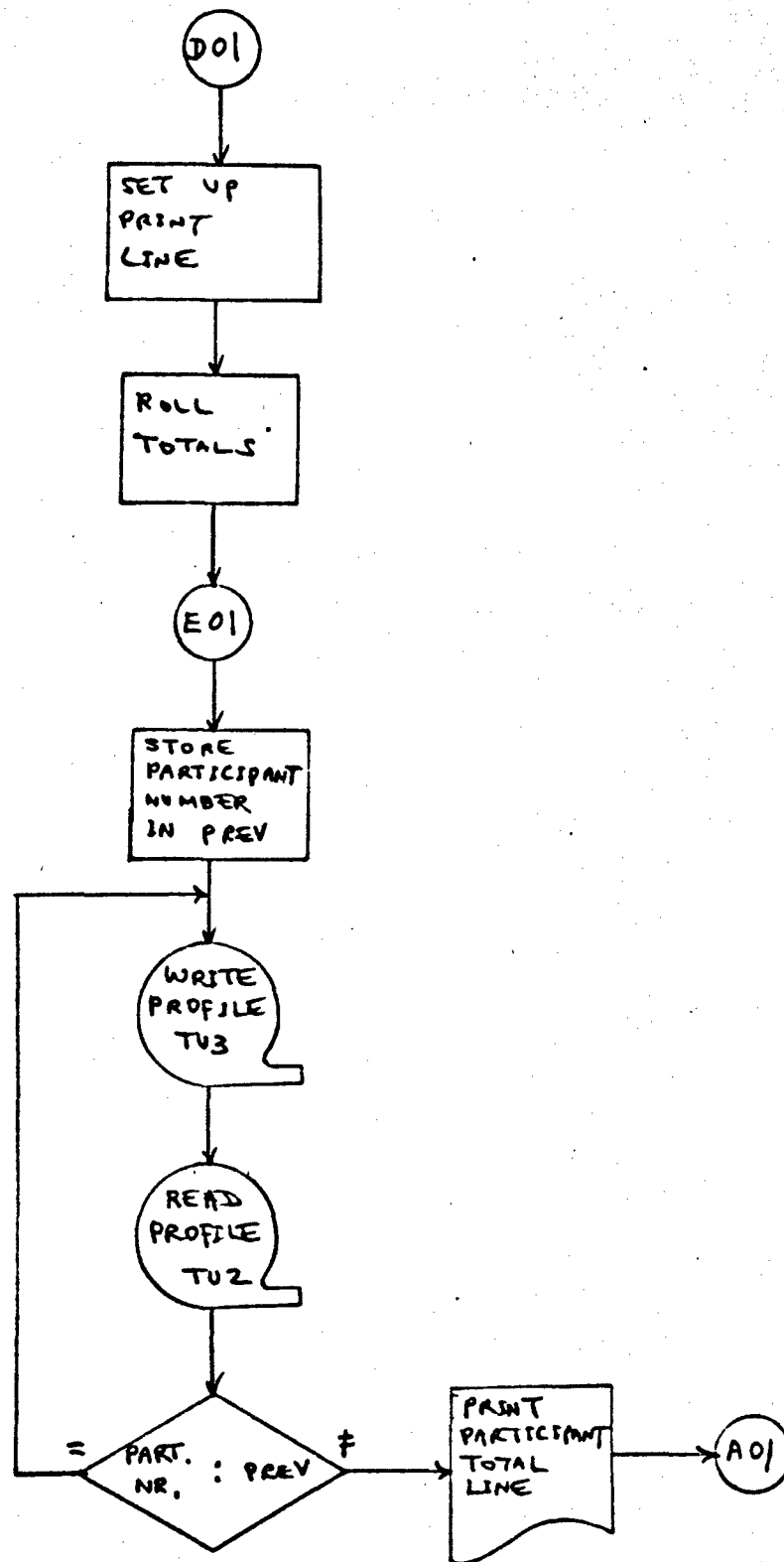


### Operating Instructions

1. Mount Interest Profile tape from the Print Notifications program on TU2.
2. Mount a scratch tape on TU3.
3. Place response cards in reader, preceded by a date card with date punched in cc 1-20, and followed by a sentinel card with nines in cc 1-10.
4. Set paper in printer with three holes showing above the paper feed sprocket.
5. Set automatic interrupt on.
6. Start at 4999.

# PRINT SDI STATISTICS







### RESPONSE CARDS

1. The participant number should be punched in cc 1-9.
2. The response number should be punched in cc 20.
3. The response cards must be in sequence on participant number.

[illegible]

1  
LABORATORY

PAGE XXX

103

TEST SLOT	DATE				TOTAL NOTIFICATIONS	TOTAL RESPONSES
	NUMBER 1	OF 2	RESPONSES 3	BY TYPE 4		
	XXXX	XXXX	XXXX	XXXX	XXXXXX	XXXXXX
	XXXX	XXXX	XXXX	XXXX	XXXXXX	XXXXXX

SDI - MIT

<u>BLOCK</u>	<u>I. D.</u>	<u>RUN</u>
0002	67 0000 HHHH	Load Block
0004	77 0001 B055	Internal Control (MASCOT)
0013	77 0002 B101	Internal Functions (MASCOT)
0041	77 0050 B001	MASCOT 50-Function
0072	77 0051 B001	MASCOT 51-Function
0079	77 0052 B001	MASCOT 52-Function
0088	77 0054 B001	MASCOT 54-Function
0095	67 0100 HHHH	Unused
0097	67 0110 HHHH	Unused
0099	67 0125 4999	Unused
0101	67 0150 4999	Unused
0103	77 0200 B000	Sort II
0112	77 0201 B000	Sort II
0120	77 0202 B001	Sort II
0129	77 0203 B201	Sort II
0139	77 0204 B001	Sort II
0165	77 0206 B200	Sort II
0181	77 0207 B000	Sort II
0201	77 0208 B000	Sort II
0221	77 0209 B000	Sort II
0254	67 0400 3500	S-4
0318	67 0500 4999	Convert RCF and MDT
0341	67 0520 4999	Update Interest Profile
0385	67 0530 4999	Interest Profile Status Report
0411	67 0550 4999	Code Interest Tags
0435	67 0570 4999	Select Citations
0461	67 0580 4999	Print Notifications
0495	67 0590 4999	Print Statistics